



VALVES

BLACK BULLET MAX VALVE

✓ Superior Material

- Glass-filled nylon construction gives the Black Bullet added strength over conventional PVC valves.
- Pick up a Black Bullet in one hand and any other valve in the other to feel the difference.

✓ Multi-Bolt Cover

- Stainless steel bolts easily thread in and out of quality brass inserts.
- Black Bullet installers will tell you they rarely need to open a Weathermatic valve. When you do, it is easy to open and easier to close than most valves using screws or jar tops that are susceptible to stripping, dirt, and grit.

✓ Unmatched Manual Bleed

- Send the Black Bullet into action by simply pulling the trigger.
- It's the easiest, driest internal manual bleed in the business that won't flood the valve box.
- No twisting on a solenoid or bleed screw is required.

✓ Shocking Shock Cone

- The Black Bullet puts the hammer to water hammer by incorporating a cone-shaped diaphragm base.
- The shock cone interrupts the water flow more gradually than other diaphragms to enable quick valve closure without the damaging effect of water hammer.

✓ Revolutionary Reverse Flow Design

- Reverse flow design means the valve fails shut rather than open in the event of diaphragm failure, unlike conventional forward flow valves that fail open.
- Balanced pressure on the diaphragm extends valve life over forward flow valves.



✓ 25- Year Track Record

- The Black Bullet track record shows less than a fraction of 1% return rate over 25+ years of reliable performance.

✓ Amazing Value for the Price!

- One valve for both clean and dirty water applications. Self-cleaning function is achieved as diaphragm actually flexes during operation to send dirt and debris down the line without the maintenance worry of filters and screens.

✓ Standard Dirty Water Operation

- Seasoned installers know that valves are the last place to cut expenses when just one call-back eliminates any cost savings on the job.

✓ Best Warranty in the Business

- Unparalleled 10-Year Warranty provides worry-free replacement for twice as long as any other competitor.



BLACK BULLET MAX SPECIFICATIONS

MODEL	DESCRIPTION	FACTORY INSTALLED OPTIONS (CHOOSE ONE)		INTERNATIONAL MODEL
MAX-DW-10	Dirty Water 1" 24 VAC			MAX-DW-10-ISO (11024FCR-10D-ISO)
MAX-DW-15	Dirty Water 1 1/2" 24 VAC	-XPR	-NP	MAX-DW-15-ISO (11024FCR-15D-ISO)
MAX-DW-20	Dirty Water 2" 24 VAC			MAX-DW-20-ISO (11024FCR-20D-ISO)



Save Water. Give Life.

100 gallons
given per valve



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- 10 year trade warranty and 100% water tested
- 225 PSI (15.5 BAR) rating
- S24B high-efficiency solenoid for positive opening at high pressures; includes stainless steel actuator and brass threads for long life
- Reverse flow design for water conservation in the event of failure
- Diaphragm's self cleaning ports constantly flex, inhibiting sand and silt from blocking valve action
- Brass shock cone for smooth operation and reduction of water hammer
- Easy-to-use internal manual bleed lever; bleeds valve downstream; has positive stops for open and closed positions
- High-strength glass-filled body and cover with 1/4" stainless steel cover bolts and mating brass body inserts
- Brass non-rising flow control stem throttles valve from full open to closed position
- Excellent for low volume irrigation
- Contamination-resistant (CR)
- Chlorine- and chloramine-resistant EPDM diaphragm material

ELECTRICAL

24VAC/60HZ	24VAC/50HZ
Inrush: 9.48 VA	Inrush: 10.7 VA
Holding: 5.69 VA	Holding: 7.5 VA

Wiring requires a single lead from the controller to each solenoid, plus a common neutral to all solenoids; type UF wire, U.L. listed, is recommended for all hookups

Application	Commercial
Flow Range	0.2 to 130 GPM 0 to 30.0 m ³ /hr
Pressure Rating	225 PSI (15.5 BAR) rating
Sizes	1", 1 1/2", 2"
XPR Compatible	✓
Dirty Water	✓
Non-Potable Water	✓
Decoder System Compatible	✓
Use as Master Valve	✓
Warranty	10 years
Factory Installed Options	-XP -NP

DIMENSIONS

VALVE	LENGTH	WIDTH	HEIGHT
MAX-DW-10	5" (12.7 cm)	3.13" (7.95 cm)	4.75" (12.07 cm)
MAX-DW-15	5.75" (14.61 cm)	4.50" (11.43 cm)	4.88" (12.40 cm)
MAX-DW-20	7.25" (18.42 cm)	5" (12.7 cm)	6" (14.24 cm)

BLACK BULLET MAX SERIES VALVE PRESSURE LOSS

FLOW GPM	MAX-DW-10 1"	MAX-DW-15 1 1/2"	MAX-DW-20 2"	FLOW M3/HR	MAX-DW-10-ISO 2.54 CM	MAX-DW-15-ISO 3.81 CM	MAX-DW-20-ISO 5.08 CM
0-4	1.2 max			0-0.9	0.08 max		
6	1.4			1.0	0.10		
8	1.6			2.0	0.12		
10	1.7			2.5	0.13		
15	2.0			3.0	0.14		
20	2.3	1.3		5.0	0.18	0.10	
25	3.0	1.6		6.0	0.24	0.12	
30	4.3	1.9		7.0	0.32	0.14	
35	6.0*	2.4		8.0	0.43*	0.17	
40	7.7	3.0	2.3	9.0	0.54	0.21	0.16
45	9.5	3.8	2.4	10.0	0.64	0.26	0.17
50	11.5	4.6	2.6	11.0	0.77	0.31	0.17
55		5.6*	2.7	12.0		0.37*	0.18
60		6.7	2.9	14.0		0.51	0.20
70		9.5	3.3	16.0		0.68	0.23
80		13.0	3.4	18.0		0.90	0.23
90			4.2	20.0			0.29
100			5.2*	22.0			0.34*
110			6.7	24.0			0.42
120			7.7	26.0			0.50
130			8.8	30.0			0.62

* Minimum recommended flow for valves with XPR option or PRK-24 accessory.

OPTIONS (FACTORY INSTALLED)

- XPR Pressure Regulator-the Weathermatic XPR pressure regulating module senses inlet pressure and maintains constant outlet pressure. (see PRK-24 in valve accessory section for specifications)
- Non-potable alert flow handle may be substituted for the standard flow handle. Add -NP suffix.

